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(54) PRIMER COMPOSITION, PHOTOCATALYST COATING CURABLE AT ORDINARY TEMPERATURE, FORMATION OF PHOTOCATALYST- CONTAINING COATING FILM USING THE COATING AND PHOTOCATALYST-CONTAINING COATING FILM

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain a primer composition capable of, at a low cost, forming a coating film having excellent adhesion properties to a base material and to a photocatalytic titanium oxide-containing layer as a top layer, by incorporat ing a silicone-modified urethane resin.
SOLUTION: This primer composition contains a silicone-modified urethane resin and is used for a primary layer. Therein, the modified urethane resin preferably comprises, for example, a block copolymer which is produced from of a low-molecular weight silicone resin and a low-molecular weight urethane resin through a bond formed by reacting isocyanate group and silanol group existing at the ends of the both resins. The amount of the resin is 10-70 wt.% in terms of the solid content, and an organic solvent such as ethyl acetate is contained in an amount of about 30-90 wt.%. The primer composition preferably contains a silane coupling agent such as an organomonosilane, an extender pigment such as talc, etc.

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